ABSTRACT

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Disclosed is a method of producing a polyester fireretardant core matrix for a prefabricated panel. The method includes adding a fire-retardant agent to a polyester floss to allow the fire-retardant agent to permeate into the polyester floss, rolling the polyester floss, drenched by fire-retardant agent, using a roller to permeation of the fire-retardant agent into the polyester floss, drawing the excess fire-retardant agent from the polyester floss using a perforated roller, of which an air suction force is easily controlled, drying the semi-dried polyester floss using a microwave generating unit, foaming the dried polyester floss using a heater. The polyester fire-retardant core matrix has advantages excellent fire-retardancy, high strength, and low absorptivity.